Inte	Application No
PC.,	004/020703 در

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 H01M8/10 C07D235/10 CO7D271/10 C07C311/03 C08F28/02 H01M8/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 $\begin{array}{ll} \text{Minimum documentation searched} & \text{(classification system followed by classification symbols)} \\ \text{IPC 7} & \text{H01M} & \text{C07D} & \text{C07C} & \text{C08F} \end{array}$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, CHEM ABS Data, COMPENDEX, PAJ, BEILSTEIN Data

C. DOCUME	NTS CONSIDERED TO BE RELEVANT	:	
Category °	Citation of document, with indication, where appropriate, of the		Relevant to claim No.
P,A	EP 1 359 142 A (ASAHI CHEMICAL 5 November 2003 (2003-11-05) paragraph [0482] page 56 - page 59; examples 8	1-60	
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X Furth	er documents are listed in the continuation of box C.	X Patent family members are listed	in annex.
° Special cat	egories of cited documents :		
"A" documer consider filling da "L" documer which is citation "O" documer other m" "P" documer later the	nt defining the general state of the art which is not ered to be of particular relevance ocument but published on or after the international ate at the international of the inte	"T" later document published after the in or priority date and not in conflict wit cited to understand the principle or t invention "X" document of particular relevance; the cannot be considered novel or canninvolve an inventive step when the description of the cannot be considered to involve an indocument is combined with one or ments, such combination being obvi in the art. "&" document member of the same paten	n the application but heavy underlying the claimed invention of the considered to ocument is taken alone claimed invention nventive step when the lore other such docupous to a person skilled
-210 01 018 8	ocual completion of the international search	Date of mailing of the international se	arch report
27	7 October 2004	28. 01. 2	005
Name and m	alling address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, Fax: (+31-70) 340-3016	Authorized officer Kollmannsberger,	

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Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
PATENT ABSTRACTS OF JAPAN vol. 2003, no. 07, 3 July 2003 (2003-07-03) & JP 2003 086202 A (CENTRAL GLASS CO LTD; TOYOTA CENTRAL RES & DEV LAB INC), 20 March 2003 (2003-03-20) abstract		1-60
US 6 264 857 B1 (KREUER KLAUS-DIETER ET AL) 24 July 2001 (2001-07-24) claim 10	·	1-60
US 6 319 428 B1 (ARMAND MICHEL ET AL) 20 November 2001 (2001-11-20) examples 35,36		1-60
XU Y ET AL: "Study on the Reactions of Fluoroalkanesulfonyl Azides with Pyridine and its Derivatives" TETRAHEDRON, ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL, vol. 55, no. 48, 26 November 1999 (1999-11-26), pages 13725-13734, XP004181511 ISSN: 0040-4020 compounds 7,8,11,12		
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Box II Observations where certain claims were found unsearchable (Continuation of Item 2 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
A. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-23, 24-58(in part), 59-60
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-23, 24-58 (in part), 59-60

compounds according to structures (I) and (II), polymers (III) therefrom; membranes, electrochemical cells and electrocatalysts containing these membranes

2. claims: 24-58 (in part)

membranes containing small molecules (IV) and electrochemical cells containing such membranes

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